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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,611	12/17/2001	Yuki Sasaki	111482	5891
25944	7590	11/17/2004		
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320			EXAMINER MITCHELL, GREGORY W	
			ART UNIT	PAPER NUMBER
			1617	

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/015,611

Applicant(s)

SASAKI ET AL.

Examiner

Gregory W Mitchell

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 25 October 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) 18-22 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 9-29-04.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### **DETAILED ACTION**

This Office Action is in response to the Remarks filed by Applicant on October 25, 2004. Claims 1-22 are pending. Claims 18-22 have been withdrawn from consideration as being drawn to a non-elected invention. Claims 1-17 are examined herein.

#### ***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 25, 2004 has been entered.

#### ***Response to Arguments***

Applicant's arguments with respect to claims 1-17 have been considered but are moot in view of the new ground(s) of rejection.

#### ***Response to Declaration***

Applicant's declaration has been considered but is moot in view of the new ground(s) of rejection.

***Claim Rejections - 35 USC § 102***

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 6-10, and 12-14 rejected under 35 U.S.C. 102(b) as being anticipated by Ishiyama et al. (USPN 6080519).

Ishiyama et al. discloses a binder resin for use in a toner, said binder resin having a volume average particle diameter in the range of 2 to 9 microns, a diameter distribution coefficient GSDv of 1.30 or less, and a number average particle diameter distribution coefficient GSDp of 0.95 or more (col. 3, line 11-col. 4, line 7). The particles are taught to have a shape factor SF1 in a range of from 110 to 140 (col. 4, lines 8-12). A resin with a mean particle diameter of 160 nm, a glass transition point of 58° C, and a weight average molecular weight of 35,000 is specifically disclosed (col. 14, lines 20-23).

It is Examiner's position that Applicant's recitations of specific surfaceness index values, volumetric ratios, compaction ratios, volatility, surface tension, and conductivity are properties of the resin particles. Accordingly, because Ishiyama et al. discloses the same resin particles, it is Examiner's position, that the particles of Ishiyama et al. will, inherently, possess the properties claimed in claims 2, 4, 8-10 and 12-14. A chemical composition and its properties are inseparable. If the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are necessarily present. *In re Spada*, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). It has been held that where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or

substantially identical processes, a *prima facie* of anticipation has been established. *In re Best*, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977).

It is noted that there is no teaching of any water content in the resin particles of Ishiyama et al. and that 0% is less than 3%.

It is also noted that no weight is given to the intended use of "for a dermatological composition" recited in claim 1. If the body of a claim fully and intrinsically sets forth all of the limitations of the claimed invention, and the preamble merely states, for example, the purpose or intended use of the invention, rather than any distinct definition of any of the claimed invention's limitations, then the preamble is not considered a limitation and is of no significance to claim construction. MPEP 2112.01.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3, 5, 11 and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishiyama et al. (USPN 6080519), as applied to claims 1, 2, 4, 6-10 and 12-14 above, and further in view of Hagi et al. (USPN 5976750).

Ishiyama et al. applies as disclosed above. Ishiyama et al. further teaches that that the acid value of the resin particles should be from 10 to 50 mg-KOH (col. 4, lines

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47-51). Ishiyama et al. does not teach the specific GSDp, specific molecular weight, specific acid value range, or additional fine particles adhered to the resin particles.

Hagi et al. teaches toner particles comprising a colorant and a binder resin having a volume-mean particle size of 3 to 7 microns and an SF1 of 100 to 130 (col. 3, lines 9-12). It is taught that the resin particles may have inorganic fine particles of a size of 5 to 60 nm externally added in order to increase fluidity of the toner (col. 4, line 33-col. 6, line 40). The number-mean molecular weight of the resin particles is taught to be between 3000 and 6000 and the glass transition temperature is taught to be between 50 and 70° C (col. 6, lines 51-67). It is pointed out that size of the fine particles taught by Hagi et al. are less than half the size of the resin particles.

It would have been obvious to one of ordinary skill in the art at the time of the invention to adhere other small particles to the resin particles of Ishiyama et al. because (1) both Ishiyama et al. and Hagi et al. are drawn to resin particles for use in a toner; (2) both Ishiyama et al. and Hagi et al. are drawn to resin particles of the same size, possessing similar glass transition temperatures, and possessing similar shape factor SF1 values; and (3) Hagi et al. teaches that fine particles may be added to the resin particles taught therein. One would have been motivated to add the second smaller particles to the resin particles because, as taught by Hagi et al., they serve to improve the fluidity of the toner.

Furthermore, it would have been obvious to one of ordinary skill in the art to use a resin particle of Ishiyama et al. comprising a number-average molecular weight of between 3000 and 6000, as taught by Hagi et al., because of analogous nature of the

two references, as described above. A resin powder with a particle size distribution GSDp of 1.5 or less and an acid value of between 1.0 and 20 mg/KOH/g would have also been obvious to one of ordinary skill in the art because the range of each overlaps with the ranges taught by Ishiyama et al.

It is Examiner's position that Applicant's recitations of specific adhesive strength ratio of the fine particles to the resin particles are properties of said fine particles and resin particles. Accordingly, because Ishiyama et al. in view of Hagi et al. teaches the same resin particles, it is Examiner's position that the particles rendered obvious by Ishiyama et al. and Hagi et al. will possess the properties claimed in claim 17. If the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are necessarily present. *In re Spada*, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). It has been held that where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a *prima facie* of obviousness has been established. *In re Best*, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977).

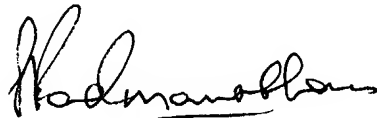
### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory W Mitchell whose telephone number is 571-272-2907. The examiner can normally be reached on M-F, 8 AM - 4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

gwm

  
SREENI PADMANABHAN  
SUPERVISORY PATENT EXAMINER